



PTO/SB/17 (01-06)

Approved for use through 7/31/2006. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

**FEE TRANSMITTAL**  
**For FY 2006**☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT (\$)** 180.00**Complete if Known**

Application Number	10/678,303-Conf. #4125
Filing Date	October 6, 2003
First Named Inventor	Katsutoshi Tsuchiya
Examiner Name	O. Gabor
Art Unit	2878
Attorney Docket No.	A8319.0025/P025

**METHOD OF PAYMENT (check all that apply)**

☐ Check ☒ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): \_\_\_\_\_  
☒ Deposit Account Deposit Account Number: 04-1073 Deposit Account Name: Dickstein Shapiro Morin & Oshinsky LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee  
☒ Charge any additional fee(s) or underpayment of fee(s) under 37 CFR 1.16 and 1.17 ☒ Credit any overpayments

**FEE CALCULATION (All the fees below are due upon filing or may be subject to a surcharge.)****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

**2. EXCESS CLAIM FEES**

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
	x	=	

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims	Extra Claims	Fee (\$)	Fee Paid (\$)
	x	=	

HP = highest number of independent claims paid for, if greater than 3.

**Multiple Dependent Claims**

Fee (\$)	Fee Paid (\$)
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**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 =	/50	(round up to a whole number) x	=	

**4. OTHER FEE(S)**

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): 1806 Submission of an Information Disclosure Statement 180.00

**SUBMITTED BY**

Signature		Registration No. (Attorney/Agent)	33,082 / 45,920	Telephone	(202) 775-4742
Name (Print/Type)	Mark J. Thronson / Peter A. Veytsman			Date	April 17, 2006



Docket No.: A8319.0025/P025  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Katsutoshi Tsuchiya et al.

Application No.: 10/678,303

Confirmation No.: 4125

Filed: October 6, 2003

Art Unit: 2884

For: RADIATION DETECTOR, RADIATION  
DETECTOR ELEMENT, AND RADIATION  
IMAGING APPARATUS

Examiner: O. Gabor

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement (IDS) is being filed after the mailing date of a first Office Action on the merits. The fee required by 37 CFR 1.17(p) is enclosed. The references contained in this IDS were cited in a communication from the Japanese patent office in a counterpart foreign application. Copies of the references listed on the attached PTO/SB/08 are enclosed, as well as English-language Abstracts of the references.

Applicants are enclosing a copy of the communication from the Japanese patent office. Applicants also wish to disclose a translation of the portion of the communication from the Japanese patent office that discusses the reference. In the following translated portion,

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reference numbers 1, 2, 3 and 4 correspond to references identified as A, B, C, and D on the attached PTO/SB/08, respectively.

The cited reference 1 discloses a radiation detector including a first electrode, a semiconductor element surrounding circumference of the first electrode and contact with the first electrode into which radiation comes in, a plurality of radiation detector element having a second electrode and disposed outer surface of the semiconductor element, and integrated circuit for processing signal outputted from the radiation detector element, wherein the first detector is signal outputting electrode and second electrode is voltage applying electrode.

The cited reference 2 discloses a two-dimensional array radiation detector in which each of unit elements is structured individually, and electrical connection of each element is structured as detachable, rendering to structure radiation detector of which exchange of unit element or repairing can be easily carried out.

The cited reference 3 discloses, in paragraph [0003] and in FIG. 13, that the electrode itself which is a structural element of the radiation detector to include collimator effects.

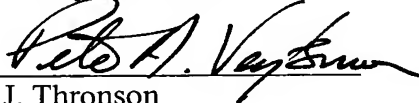
The cited reference 4 discloses, concerned with the width of electrode formed pinching semiconductor, a radiation detector element of which width of one electrode is narrower than that of the other electrode.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(b) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such. It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 04-1073, under Order No. A8319.0025. A duplicate copy of this paper is enclosed.

Dated: April 17, 2006

Respectfully submitted,

By 

Mark J. Thronson

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Peter A. Veytsman

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PTO/SB/08a/b (08-03)

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<b>Substitute for form 1449A/B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/678,803 Conf. #4125
				Filing Date	October 6, 2003
				First Named Inventor	Katsutoshi Tsuchiya
				Art Unit	2884
				Examiner Name	O. Gabor
Sheet	1	of	1	Attorney Docket Number	A8319.0025/P025-A

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
	A	JP 58-143285	8-25-1983			Abstract Only
	B	JP 11-126890	5-11-1999			Abstract Only
	C	JP 11-133155	5-21-1999			Abstract Only
	D	JP 06-120550	4-28-1994			Abstract Only
	E	JP 61-292969	12-23-1986			Abstract Only
	F	JP 5-259496	10-08-1993			Abstract Only

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
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